



## SEQUENCE LISTING

<110> GRAYVEREAUX, ROBIN C.  
SILVER, MARY  
ISNER, JEFFREY M.  
YOON, YOUNG-SUP

<120> USE OF LYMPHANGIOGENIC AGENTS TO TREAT LYMPHATIC  
DISORDERS

<130> 71417/55062

<140> 09/970,088

<141> 2001-10-02

<150> 60/237,171

<151> 2000-10-02

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Illustrative  
peptide

<400> 1

Asn Val Ser Asp Ser Leu Glu Met

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<210> 2

<211> 7

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Illustrative  
peptide

<400> 2

Trp Glu Phe Pro Arg Glu Arg

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5

<210> 3

<211> 24

<212> DNA

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<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

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<222> (18)
<223> A, T, C or G

<400> 3
aacgtgagyg actcsytnga ratg 24

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
      oligonucleotide

<400> 4
cckytcyckg ggraaytccc a 21

<210> 5
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer

<400> 5
tatggtacaa agatgagagg c 21

<210> 6
<211> 21
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<223> Description of Artificial Sequence: Primer

<400> 6
acaggtattc acattgctcc t 21

<210> 7
<211> 420
<212> DNA
<213> Oryctolagus cuniculus

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ctgcaagaag aatctggaat cgacctcgcg gactcgaacc agaggctgag catccagcgc 120
gtgcgcgagg aggacgcggg ccgctatctg tgcagcgtgt gcaacgcaa gggctgcgtc 180
aactcctccg ccagcgtagc tgtgggaggg gccgaagata gaggcagcat ggagatcgtg 240
atcctcgtgg gcaccggcgt cattgccgtg ttcttttggg tcctcctcct gctcatcttc 300

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tgtaacatga ggaggccagc ccacgcggac atcaagacgg gctacttgct catcatcatg 360  
 gatccccggg aggtgcctct ggaggagcaa tgtgaatacc tgtcctacga cgccagccag 420

<210> 8  
 <211> 420  
 <212> DNA  
 <213> Bos sp.

<400> 8  
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 ctggaagaag agtccggaat cgacctggcg gactcgaacc agaggctgag catccagcgc 120  
 gtgcgcgagg aggacgcggg ccactatctg tgcagtgtgt gcaacgcaa gggctgtgtc 180  
 aactcctctg ccagcgtggc tgtggaaggc tctgaggata aaggcagcat ggagatcgtg 240  
 atccttgttg gcaccggagt catcgctgtc tttttctggg tcctccttct cctcatcttc 300  
 tgtaacatga ggaggccaac ccatgcagac atcaagactg gctacttgct catcatcatg 360  
 gacccccggg aggtgccttt ggaggagcag tgtgaatacc tgtcctacga tgctagtcaa 420

<210> 9  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
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 gtgcgcgagg aggatgcggg acgctatctg tgcagcgtgt gcaacgcaa gggctgcgtc 180  
 aactcctccg ccagcgtggc cgtggaaggc tccgaggata agggcagcat ggagatcgtg 240  
 atccttgtcg gtaccggcgt catcgctgtc ttcttctggg tcctcctcct cctcatcttc 300  
 tgtaacatga ggaggccggc ccacgcagac atcaagacgg gctacctgtc catcatcatg 360  
 gacccccggg aggtgcctct ggaggagcaa tgcgaatacc tgtcctacga tgccagccag 420

<210> 10  
 <211> 420  
 <212> DNA  
 <213> Mus sp.

<400> 10  
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 gtgcgcgagg aggacgcagg tcgttatctg tgcagcgtgt gcaatgcaa gggctgcgta 180  
 aactcctctg ccagcgtggc agtggaaggc tctgaagata aaggcagcat ggagattgtg 240  
 atactcattg gcaactggcgt catcgagtt ttcttctggg tcctcctcct gctcatcttc 300  
 tgtaacatga aaaggcctgc ccatgcagac atcaagacgg gctacctgtc catcatcatg 360  
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 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 11  
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 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg  
                   35                  40                  45  
 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
                   50                  55                  60  
 Ser Val Ala Val Gly Gly Ala Glu Asp Arg Gly Ser Met Glu Ile Val  
                   65                  70                  75                  80  
 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu  
                   85                  90                  95  
 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Ala His Ala Asp Ile Lys  
                   100                  105                  110  
 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
                   115                  120                  125  
 Glu Gln Cys Glu Tyr Leu Ser Tyr Asp Ala Ser Gln  
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<210> 12

<211> 140

<212> PRT

<213> Bos sp.

<400> 12

Arg Cys Pro Val Ala Gly Thr His Val Pro Ser Ile Val Trp Tyr Lys  
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                   20                  25                  30  
 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly His  
                   35                  40                  45  
 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
                   50                  55                  60  
 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val  
                   65                  70                  75                  80  
 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu  
                   85                  90                  95  
 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Thr His Ala Asp Ile Lys  
                   100                  105                  110  
 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
                   115                  120                  125  
 Glu Gln Cys Glu Val Leu Ser Tyr Asp Ala Ser Gln  
                   130                  135                  140

<210> 13  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 13  
 Gln Cys Leu Val Ala Gly Ala His Ala Pro Ser Ile Val Trp Tyr Lys  
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 Asp Glu Arg Leu Leu Glu Glu Lys Ser Gly Val Asp Leu Ala Asp Ser  
                   20                  25                  30  
 Asn Gln Lys Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg  
           35                  40                  45  
 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
   50                  55                  60  
 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val  
   65                  70                  75                  80  
 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Val Leu Leu  
                   85                  90                  95  
 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Ala His Ala Asp Ile Lys  
                   100                  105                  110  
 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
   115                  120                  125  
 Glu Gln Cys Glu Val Leu Ser Tyr Asp Ala Ser Gln  
   130                  135                  140

<210> 14  
 <211> 140  
 <212> PRT  
 <213> Mus sp.

<400> 14  
 Arg Cys Pro Val Ala Gly Ala His Val Pro Ser Ile Val Trp Tyr Lys  
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 Asp Glu Arg Leu Leu Glu Lys Glu Ser Gly Ile Asp Leu Ala Asp Ser  
                   20                  25                  30  
 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg  
           35                  40                  45  
 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
   50                  55                  60  
 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val  
   65                  70                  75                  80  
 Ile Leu Ile Gly Thr Gly Val Ile Ala Val Phe Phe Trp Val Leu Leu  
                   85                  90                  95

Leu	Leu	Ile	Phe	Cys	Asn	Met	Lys	Arg	Pro	Ala	His	Ala	Asp	Ile	Lys
			100					105					110		
Thr	Gly	Tyr	Leu	Ser	Ile	Ile	Met	Asp	Pro	Gly	Glu	Val	Pro	Leu	Glu
		115					120					125			
Glu	Gln	Cys	Glu	Tyr	Leu	Ser	Tyr	Asp	Ala	Ser	Gln				
	130						135				140				